



SEQUENCE LISTING

<110> DIU...CEND, ANITA  
EMMAN, KARL-DIETER  
KOETTER, PETER

B1

<120> METHOD FOR SCREENING ANTIMYCOTIC SUBSTANCES USING  
ESSENTIAL GENES FROM S. CEREVISIAE

<130> 146.1353

<140> 09/674,109

<141> 2001-06-21

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<150> EP 98401007.4

<151> 1998-04-24

<160> 191

<170> PatentIn Ver. 2.1

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tc 62

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tg 62

<210> 7  
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<210> 8

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YLR359w-S1

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gcatattgct gagaaggaat tgggcttaac tgttggtaca cagctgaagc ttcgtaacgc 59

<210> 9  
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YLR359w-S2

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tg 62

<210> 10  
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<210> 11  
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tg 62

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tg 62

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<210> 15  
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tg 62

<210> 16  
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ttgccaagaa aattgcagta aaaatgttgg aagagcaact cagctgaagc ttcgtacgc 59

<210> 17  
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YLR440c-S2

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gcacaattc tagtgtgtc cattgcgatg taacaattc gcataggcca ctagtggatc 60  
tg 62

<210> 18

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YFL024c-S1

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agatgaattt ttctgggta tagaagagtt ctgttctgct cagctgaagc ttcgtaagc 59

<210> 19

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YML049c-S2

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tg 62

<210> 20

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YFL024c-S1

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tg 62

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tgtggaagag gttcccgag tttgcagct tcgagcaact cagctgaagc ttcgtaagc 59

4210 12  
4211 61  
4212 DNA  
4213 Artificial Sequence

4220  
4221 Description of Artificial Sequence: primer  
YFR003c-S2

4400 12  
atcttccttg tctacgttcg ttaaagtcaa gacctctctc gcataggcca ctagtggatc 60  
tg 62

4210 13  
4211 59  
4212 DNA  
4213 Artificial Sequence

4220  
4221 Description of Artificial Sequence: primer  
YFR027w-S1

4400 13  
aatgaaagct aggaaatcgc agagaaaagc gggcagtaaa cagctgaagc ttcgtaagc 59

4210 14  
4211 61  
4212 DNA  
4213 Artificial Sequence

4220  
4221 Description of Artificial Sequence: primer  
YFR027w-S2

4400 14  
atttggttg cgatacccaa cttccttgct gtccctgcaca gcataggcca ctagtggatc 60  
tg 62

4210 15  
4211 59  
4212 DNA  
4213 Artificial Sequence

4220  
4221 Description of Artificial Sequence: primer  
YFR042w-S1

4400 15  
atttgacc aatggcaata tgccctgtgat aaagataagg cagctgaagc ttcgtaagc 59

4210 16  
4211 62  
4212 DNA  
4213 Artificial Sequence

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<210> 27

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YIL109c-S1

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<210> 28

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tc 62

<210> 30

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42100 31  
42110 62  
42120 DNA  
42130 Artificial Sequence

42200  
42210 Description of Artificial Sequence: primer  
YIL091c-S2

44000 31  
catgtaaaa ttcaggattg ttggaggct tataaaaaac gcataggcca ctagtggatc 60  
tg 62

42110 30  
42110 59  
42120 DNA  
42130 Artificial Sequence

42200  
42210 Description of Artificial Sequence: primer  
YIL083c-S1

44000 31  
accctaccg gtgctcaaca gacctcaat tcatacgtct cagctgaagc ttcttacgc 59

42110 31  
42110 61  
42120 DNA  
42130 Artificial Sequence

42200  
42210 Description of Artificial Sequence: primer  
YIL083c-S2

44000 31  
cgatgacttc tgggattatc atctcttcaa tgatatggtg gcataggcca ctagtggatc 60  
tg 62

42110 34  
42110 59  
42120 DNA  
42130 Artificial Sequence

42200  
42210 Description of Artificial Sequence: primer  
YIL019w-S1

44000 34  
ttcaaaqaaa agcttttgaa agtcagttcg gatctttaga cagctgaagc ttcttacgc 59

42110 35  
42110 61  
42120 DNA  
42130 Artificial Sequence

42200



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YIL019w-S2

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tg 62

<100> 36  
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YIL104c-S1

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<100> 37  
<110> 62  
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YIL104c-S2

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tg 62

<100> 38  
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YIR010w-S1

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<100> 39  
<110> 61  
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YML077w-S2

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tg 62

<215> 40  
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YIR010w-S1

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accatagctc atcgactttt gtttctaact ttgtctcaac gcataggcca ctagtggatc 60  
tg 62

<215> 41  
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YIR015w-S1

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tcaaacaggg accatttcca tagattaaac taccttacc cagctgaagc ttogtaagc 59

<215> 41  
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YIR015w-S1

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tg 62

<215> 43  
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YPL233w-S1

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<215> 44  
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YPL233w-S2

<4000> 44  
taattctctt ccaggaagtc cattaagcgc ttgaactttt gcataggcca ctagtggatc 60  
tg 62

<210> 45  
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YPL146c-S1

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<210> 46  
<211> 52  
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YPL146c-S2

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tg 62

<210> 47  
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<212> DNA  
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YPL126w-S1

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atgaagcaat ccttaggtat cgaacagtat aaactgtcag cagctgaagc ttogtaagc 53

<210> 48  
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YPL126w-S2

<4000> 48  
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tg 62

<210> 49

<211> 59  
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YFL093w-S1

<400> 49  
caagattaca agaatcagag cgttctatat gcgtaaagtt cagctgaagc ttcgtacgc 59

<210> 50  
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<212> DNA  
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YML093w-S1

<400> 50  
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<210> 51  
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<223> Description of Artificial Sequence: primer  
YFL093w-S2

<400> 51  
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tc 62

<210> 52  
<211> 51  
<212> DNA  
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YPL063w-S1

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<210> 53  
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YPL063w-S2

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tg 62

<210> 54  
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<214>  
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YPL024w-S1

<400> 54  
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<210> 55  
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<214>  
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YPL024w-S2

<400> 55  
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tg 62

<210> 56  
<211> 59  
<212> DNA  
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<214>  
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YPL020c-S1

<400> 56  
tcagttgaag tagataagca ccggaacaca ctacagtatc cagctgaagc ttcgtacgc 59

<210> 57  
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YPL020c-S2

<400> 57  
tcggttaaaa tcaa atgggc aataaatctt ctcatcctaa gcataggcca ctagtggatc 60  
tg 62

<210> 58  
<211> 59  
<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YPL012w-S1

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<210> 54

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPL012w-S1

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tg 62

<210> 60

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YPL007c-S1

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ccggttqtt gtcacggga catatcttta catgcgttgt cagctgaagc ttcgtaagc 59

<210> 61

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YML093w-S2

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caaggaaca ataatttggc ctggcttagt catgattctc gcataggcca ctagtggtac 60  
tg 62

<210> 61

<211> 62

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YPL007c-S2

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tg 62

<117> 63  
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<127>  
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YPF048w-S1

<401> 63  
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<117> 64  
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<127>  
<127> Description of Artificial Sequence: primer  
YPF048w-S2

<401> 64  
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tg 62

<117> 65  
<117> 59  
<117> DNA  
<117> Artificial Sequence

<127>  
<127> Description of Artificial Sequence: primer  
YPF072w-S1

<400> 65  
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<117> 66  
<117> 61  
<117> DNA  
<117> Artificial Sequence

<127>  
<127> Description of Artificial Sequence: primer  
YPF072w-S2

<401> 66  
taattggcc attctggtg gtaacttttc gatttcttta gcataggcca ctagtggatc 60  
tg 62

<117> 67  
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<117> Artificial Sequence

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<213> Description of Artificial Sequence: primer  
YPR082c-S1

<400> 67

tttcgattgc tgaagagta aggaactttg cagttattta cagctgaagc ttcgtacgc 59

<210> 68

<211> 68

<212> DNA

<213> Artificial Sequence

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<213> Description of Artificial Sequence: primer  
YPR082c-S2

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tg 62

<210> 69

<211> 59

<212> DNA

<213> Artificial Sequence

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<213> Description of Artificial Sequence: primer  
YPR085c-S1

<400> 69

ctctacatc ttctgaaaga ctccatgctg cgaattttg cagctgaagc ttcgtacgc 59

<210> 70

<211> 62

<212> DNA

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<213> Description of Artificial Sequence: primer  
YPR085c-S2

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tg 62

<210> 71

<211> 59

<212> DNA

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<213> Description of Artificial Sequence: primer  
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<400> 71

aacgtgtaat tgagggactc ataaagggca atgacttcca cagctgaagc ttcgtacgc 59



4210 70  
4211 59  
4212 RNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YPR105c-S1

4400 71  
agctagatca tggaggggcca attgtctaaa aatctagcaa cagctgaagc ttcgtaagc 59

4210 73  
4211 62  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YPR105c-S2

4400 73  
ctggtttcta tcaattctca tattctagc ttaattctt gcataggcca ctagtggatc 60  
73 62

4210 74  
4211 59  
4212 RNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YPR112c-S1

4400 74  
cattgtcaag ggtttgcccg tctatctaac agatgataat cagctgaagc ttcgtaagc 59

4210 75  
4211 59  
4212 RNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YPR137c-S1

4400 75  
atgttaagtg ttactcaaca gaaaaagagg aaaagatcca cagctgaagc ttcgtaagc 59

4210 76  
4211 62  
4212 RNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer

YPR112c-S2

<400> 76  
gaaaccttgg ttttcttcac catccacac cagtttcttt gcataggcca ctagtggatc 60  
tg 62

<210> 77  
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YPF143w-S1

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<210> 78  
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YPF143w-S2

<400> 78  
tgcattctgg cttcttgagg cagctttaac taaatcaca gcataggcca ctagtggatc 60  
tg 62

<210> 79  
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<220>  
<223> Description of Artificial Sequence: primer  
YPF144c-S1

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ttccagaaaa tgttactcaa ttggaagaag atgagacaga cagctgaagc ttcgtaagc 59

<210> 80  
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YPF144c-S2

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ccatgctaac ccaggcaagt agacgttacc ttgggatgac gcataggcca ctagtggatc 60  
tg 62

<210> 81

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<220>  
<223> Description of Artificial Sequence: primer  
YML114c-S1

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gacitgtagt agcatcgata ttggttgtgt tatgtgctac gcataggcca ctagtggatc 60  
tg 62

<210> 82  
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<223> Description of Artificial Sequence: primer  
YPR169w-S1

<400> 81  
ttttacatcc tgaactgcc attataataa ctggctttgg cagctgaagc ttogtaagc 59

<210> 81  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YPR169w-S2

<400> 83  
ttcttgatc ccattgctat acaggtcctt tttttgttg gcataggcca ctagtggatc 60  
cc 62

<210> 84  
<211> 89  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YML127w-S1

<400> 84  
tggttaagt gtactccagt aagcgaggca ccgcccacaa cagctgaagc ttogtaagc 59

<210> 85  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YML127w-S2

<400> 85  
taaacccga cgtgttttcc atgtattcag acaatgetaa gcataggcca ctagtggatc 60  
tg 62

<210> 86  
<211> 54  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF032w-S1

<400> 86  
taacggttat gaagcttggt tttgggaccc aaacgacaat cagctgaagc ttcgtaagc 59

<210> 87  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF032w-S2

<400> 87  
taggaagcta gtaaaattga tatacatoga gatcaaagac gcataggcca ctagtggatc 60  
tg 62

<210> 88  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF093w-S1

<400> 88  
atgtgactg ctaggcctag aataatcact tgaaggctc cagctgaagc ttcgtaagc 59

<210> 89  
<211> 61  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF093w-S2

<400> 89  
aggacaaat tcagtagcgg ctctaattga gattcatctc gcataggcca ctagtggatc 60  
tg 62

<210> 90  
<211> 59

<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF131c-S1

<400> 40  
ctttaacttc cttttgccag tgaacaaaca ataattgtgg cagctgaagc ttcgtacgc 59

<212> 21  
<213> 60  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YMF131c-S2

<400> 21  
gtttataga ggtcaacgag gaacaagata gagtggcttc gcataggcca ctagtggatc 60  
tg 62

<212> 21  
<213> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF185w-S1

<400> 20  
atcaacatac acgatatatt gaatacaaga ccgaagctca cagctgaagc ttcgtacgc 59

<212> 23  
<213> 61  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF185w-S2

<400> 23  
ttaaaggctt ataaactatc tagtacgggtt aaaagcttgt gcataggcca ctagtggatc 60  
tg 62

<212> 24  
<213> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMF212c-S1

<400> 94  
ccctctgaac ttaaagaatg taaatcttca ttgcgtctt cagctgaagc ttcgtaagc 59

<110> 95  
<111> 95  
<112> DNA  
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<200>  
<223> Description of Artificial Sequence: primer  
YDR499w-S1

<400> 95  
atgagacgag aaacgggtggg tgaattttct tcagatgacg cagctgaagc ttcgtaagc 59

<110> 96  
<111> 96  
<112> DNA  
<113> Artificial Sequence

<200>  
<223> Description of Artificial Sequence: primer  
YMR212b-S2

<400> 96  
cgaatgatgt tcacaccaaa acatcagaaa ctggtcaatc gcataggcca ctagtggatc 60  
cg 62

<110> 97  
<111> 97  
<112> DNA  
<113> Artificial Sequence

<200>  
<223> Description of Artificial Sequence: primer  
YMR213w-S1

<400> 97  
tactttgaaa ggcggtgtat ggaccaatgt ggaggatcag cagctgaagc ttcgtaagc 59

<110> 98  
<111> 98  
<112> DNA  
<113> Artificial Sequence

<200>  
<223> Description of Artificial Sequence: primer  
YMR213w-S2

<400> 98  
gtgtgaactg ttcaatagac tccacttttg attggatcga gcataggcca ctagtggatc 60  
cg 62

<110> 99  
<111> 99  
<112> DNA  
<113> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMF218c-S1

<400> 99

gactcaaatg cattagagt atcaactcta caacttttac cagctgaagc ttcgtacgc 59

<210> 100

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMF218c-S2

<400> 100

gaagcattt gacggaactg tacgaacggt taacaggctt gcataggcca ctagtggatc 60  
ta 62

<210> 101

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMF281w-S1

<400> 101

ctgaagaaaa gttaaatgaa gatgttgagg cgtacaaagg cagctgaagc ttcgtacgc 59

<210> 102

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMF281w-S2

<400> 101

atcagctatt gtgcatgtgt attcataagt gaaagcttgt gcataggcca ctagtggatc 60  
ta 62

<210> 103

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMF288w-S1

<400> 103

gaaaacctgc agaaagaagc tgcacgtatt ggtgagaacg cagctgaagc ttcgtacgc 59

<210> 104  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YMR288w-S2

<400> 104  
ccaaaccttc taaaatacgc ataatagcat gtggtgaagt gcataggcca ctagtggatc 60  
tg 62

<210> 105  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR290c-S1

<400> 105  
tcagttttac gtcttttggc atttggcggt ttccactgg cagctgaagc ttcgtaagc 59

<210> 106  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YML049c-S1

<400> 106  
aatctctgca cattcaagga aagtctcagg aaattttcac cagctgaagc ttcgtaagc 59

<210> 107  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YMR290c-S2

<400> 107  
gataagctga gcaatattaa caggagaagt atggctaccc gcataggcca ctagtggatc 60  
tg 62

<210> 108  
<211> 59  
<212> DNA  
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<220>



<123> Description of Artificial Sequence: primer  
YMF211w-S1

<400> 108  
agagagcaaa ccatttgact actcaattct tcaatataca cagctgaagc ttcgtacgc 59

<110> 109  
<111> 61  
<112> DNA  
<113> Artificial Sequence

<120>  
<123> Description of Artificial Sequence: primer  
YMF211w-S2

<400> 109  
attcaatca tattactcgc tgaatcaggt tcggaatgat gcataggcca ctagtggatc 60  
tc 62

<110> 110  
<111> 59  
<112> DNA  
<113> Artificial Sequence

<120>  
<123> Description of Artificial Sequence: primer  
YDF196c-S1

<400> 110  
atgattatga tcaaattgtg ttatacttca aggacaaaat cagctgaagc ttcgtacgc 59

<110> 111  
<111> 61  
<112> DNA  
<113> Artificial Sequence

<120>  
<123> Description of Artificial Sequence: primer  
YDF196c-S2

<400> 111  
tttcaatctg ttcgtataag tcaaccaatg tgctgttatt gcataggcca ctagtggatc 60  
td 62

<110> 112  
<111> 59  
<112> DNA  
<113> Artificial Sequence

<120>  
<123> Description of Artificial Sequence: primer  
YDF299w-S1

<400> 112  
atggaaaaat cactagcgga tcaaatttcc gatatcgcca cagctgaagc ttcgtacgc 59

<110> 113

42110 60  
42120 DNA  
42130 Artificial Sequence

42200  
42230 Description of Artificial Sequence: primer  
YDF299w-S2

44000 113  
caagatctg gataatcatg tttttaacag cctctaattc gcataggcca ctagtggatc 60  
tg 62

42110 114  
42120 DNA  
42130 Artificial Sequence

42200  
42230 Description of Artificial Sequence: primer  
YDF365c-S1

44000 114  
ctgagacaa cccaaagsag gaaggtgtag atgctaggtt cagctgaagc ttogtaogc 59

42110 115  
42120 DNA  
42130 Artificial Sequence

42200  
42230 Description of Artificial Sequence: primer  
YDF365c-S2

44000 115  
ttagratgct ttttattaac agatttcaac ttgcttttct gcataggcca ctagtggatc 60  
tg 62

42110 116  
42120 DNA  
42130 Artificial Sequence

42200  
42230 Description of Artificial Sequence: primer  
YDF396w-S1

44000 116  
cagataaact attgtggtgt aatctggacc ttgactgtct cagctgaagc ttogtaogc 59

42110 117  
42120 DNA  
42130 Artificial Sequence

42200  
42230 Description of Artificial Sequence: primer  
YLR222c-S1

04008 117  
ctctaaagg tagtaagcca tactacgtac aatatggatc cagctgaagc ttcgtaagc 59

0210 118  
0211 62  
0212 DNA  
0213 Artificial Sequence

0220  
0223 Description of Artificial Sequence: primer  
YDR396w-S2

04009 118  
tagagaaagc actgaatgat cttagcgacc gtacaaaaga gcataggcca ctagtggatc 60  
tg 62

0210 119  
0211 59  
0212 DNA  
0213 Artificial Sequence

0220  
0223 Description of Artificial Sequence: primer  
YDR407c-S1

04010 119  
ttcttaacca ttcccaagc tatgttggcc catctaagat cagctgaagc ttcgtaagc 59

0210 120  
0211 61  
0212 DNA  
0213 Artificial Sequence

0220  
0223 Description of Artificial Sequence: primer  
YDR407c-S2

04011 120  
ataacagac aagataacgt ttccagagtc gaactggatt gcataggcca ctagtggatc 60  
tg 62

0210 121  
0211 59  
0212 DNA  
0213 Artificial Sequence

0220  
0223 Description of Artificial Sequence: primer  
YDR416w-S1

04012 121  
acttaccatgg aaaagatata tcgagtattg gaaagaggag cagctgaagc ttcgtaagc 59

0210 122  
0211 62  
0212 DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR416w-S2

<400> 112

ggaaataact agtttatatt catctggatt aatcgaatat gcataggcca ctagtggatc 60  
ta 62

<210> 1.3

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR449c-S1

<400> 113

gaaatcagtg atttstaata atgtcgaaga caagatacta cagctgaagc ttcgtaagc 59

<210> 114

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR449c-S2

<400> 114

ataattaaat ctagaatttt atacctagga tcattctctg gcataggcca ctagtggatc 60  
ta 62

<210> 115

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDF141c-S1

<400> 1.5

ttcgtaact ttgaattctg cgatttcacg taccagcgcg cagctgaagc ttcgtaagc 59

<210> 116

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDF141c-S2

<400> 126

cactaaagcc ccttacaatt gactcaaata ataaacaact gcataggcca ctagtggatc 60  
tg 62

<10> 127  
<11> 59  
<12> RNA  
<13> Artificial Sequence

<20>  
<23> Description of Artificial Sequence: primer  
YDF324c-S1

<400> 127  
aaagaagcctg agaatacgaa acaaaccggt gaagatgacc cagctgaagc ttcgtacgc 59

<10> 128  
<11> 61  
<12> RNA  
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<20>  
<23> Description of Artificial Sequence: primer  
YMF049c-S2

<400> 128  
tcgtttctaa cataactagg tcaatgatgg ctaagaacaa gcataggcca ctagtggatc 60  
tg 62

<10> 129  
<11> 62  
<12> DNA  
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<20>  
<23> Description of Artificial Sequence: primer  
YDF324c-S2

<400> 129  
aaagactaac ttgggttgaa taaacgcctt ttgtttggag gcataggcca ctagtggatc 60  
tg 62

<10> 130  
<11> 59  
<12> DNA  
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<20>  
<23> Description of Artificial Sequence: primer  
YDF325w-S1

<400> 130  
gacattaata cgaaaatctt taactcagtt gctgaagtat cagctgaagc ttcgtacgc 59

<10> 131  
<11> 62  
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<220>

<210> Description of Artificial Sequence: primer  
YDF325w-S1

<400> 131

aacttcgtga aagattctga atccttatct tcttcattca gcataggcca ctagtggatc 60  
tg 62

<210> 132

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<210> Description of Artificial Sequence: primer  
YDF398w-S1

<400> 132

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<210> 133

<211> 51

<212> DNA

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<210> Description of Artificial Sequence: primer  
YDF398w-S1

<400> 133

aacttcacta tatccggctt cctcctcgcc gtcgctctgc gcataggcca ctagtggatc 60  
tg 62

<210> 134

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<210> Description of Artificial Sequence: primer  
YDF246w-S1

<400> 134

atggtcatcg aaacaatact tgtaataaac aaatcaggcg cagctgaagc ttcttacgc 59

<210> 135

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<210> Description of Artificial Sequence: primer  
YDF246w-S2

<400> 135

aacaggttag atcttatagg catttccatt gagtaagatg gcataggcca ctagtggatc 60

tg

62

<210> 136  
<211> 59  
<212> DNA  
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<214>  
<215> Description of Artificial Sequence: primer  
YDF236c-S1

<400> 136  
ttaaatatt gaacttgacc ctggcccat aaaaatcatt cagctgaagc ttcgtacgc 59

<210> 137  
<211> 61  
<212> DNA  
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<214>  
<215> Description of Artificial Sequence: primer  
YDF236c-S2

<400> 137  
ttgaagtgt gatgtttacg tggactatct atgtttcgtt gcataggcca ctagtggatc 60  
tg 62

<210> 138  
<211> 62  
<212> DNA  
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<214>  
<215> Description of Artificial Sequence: primer  
YDF361c-S2

<400> 138  
ttgcaagtg gaaattttctg tttccaattc atcgatactt gcataggcca ctagtggatc 60  
tg 62

<210> 139  
<211> 59  
<212> DNA  
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<214>  
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YMF134w-S1

<400> 139  
ttaaagtctg gtatagaaaa agaaccaaag gccggtatgt cagctgaagc ttcgtacgc 59

<210> 140  
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<220> Description of Artificial Sequence: primer  
YDF361c-S1

<400> 140

ggcttaagcct atcaaattaa atgatttaaa aaataggaag cagctgaagc ttogtacgc 59

<210> 141

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer  
YDF367w-S1

<400> 141

atctgcgtac ttatataaat cgataccatt tccacttggt cagctgaagc ttogtacgc 59

<210> 142

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer  
YDF367w-S2

<400> 142

gcttaggtat acgtcatccc tatcaactaa atatttgggg gcataggcca ctagtggatc 60  
tg 62

<210> 143

<211> 59

<212> DNA

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<220>

<220> Description of Artificial Sequence: primer  
YDF339c-S1

<400> 143

tatcggtaaa gctaagaaaa caagaaagtt tggcctcgta cagctgaagc ttogtacgc 59

<210> 144

<211> 62

<212> DNA

<213> Artificial Sequence

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YDF339c-S2

<400> 144

taaaagacat ctggcaattt ttcaatgacg tatgcgtgac gcataggcca ctagtggatc 60  
tg 62



<210> 145  
<211> 59  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YDE413c-S1

<400> 145  
ttcttttggt tatttttgt tcatttttg tcaaatatc cagctgaagc ttcgtaagc 59

<210> 146  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDE413c-S2

<400> 146  
acaaaagaaa gcacaagagt ttattaagga gcaggaaagg gcataggcca ctagtggatc 60  
gg 62

<210> 147  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDE429c-S1

<400> 147  
ctagatata tcattacata caagattgaa gacggtgtca cagctgaagc ttcgtaagc 59

<210> 148  
<211> 62  
<212> DNA  
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<220>  
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YDE429c-S2

<400> 148  
ttcttttggt tctaacgaca gaaactcttg gaatgggtgc gcataggcca ctagtggatc 60  
gg 62

<210> 149  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer

YFR468c-S1

4400 149  
gtcacaatac tgctggtgat gacgatcaag aggaggaaat cagctgaagc ttcgtaagc 59

4210 150  
4211 62  
4212 DNA  
4213 Artificial Sequence

4214  
4215 Description of Artificial Sequence: primer  
YMF134w-S1

4400 150  
tggtgtgtgtg cctacctgca tgtatgcatt tagcaattga gcataggcca ctagtggatc 60  
tg 62

4210 151  
4211 61  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDF468c-S2

4400 151  
caagacgaca ataaagaagtc ctatacaaca atcgtcgtat gcataggcca ctagtggatc 60  
tg 62

4210 152  
4211 59  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDF489w-S1

4400 152  
actaccacaa gagatgcaaa tacaatagtg ggttcgtcct cagctgaagc ttcgtaagc 59

4210 153  
4211 61  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDF527w-S1

4400 153  
ccacacgggc ttgtttccat aaccaaagtg catcaatagc gcataggcca ctagtggatc 60  
tg 62

4210 154

<211> 59  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YDR288w-S1

<400> 154  
atgagtctcta tagataatga cagcgatgtg gatttaacag cagctgaagc ttcgtaacgc 59

<210> 155  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YDR288w-S1

<400> 155  
ggccatgatt tcttgaccca atttttcaag agactctagt gcataggcca ctagtggatc 60  
tg 62

<210> 156  
<211> 54  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR201w-S1

<400> 156  
ggcaggtctg gactattcag agcatcatcg tcattccatac cagctgaagc ttcgtaacgc 59

<210> 157  
<211> 61  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR201w-S2

<400> 157  
aaaagggttt tccgttttagt tcccgaatat gatgttgaaa gcataggcca ctagtggatc 60  
tg 62

<210> 158  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR434w-S1

4400 158  
atgttccaatg caaatctaag aaaatggggtt ggtttttgcgct cagctgaagc ttcgtaagc 59

4210 159  
4211 59  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YML023c-S1

4400 159  
caaggaatgg tgcacattat ttgttgaac tcaactgagaa cagctgaagc ttcgtaagc 59

4210 160  
4211 61  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDR434w-S2

4400 160  
taaaaggaaga tacacagata tcatgtgctc ttgtgggaag gcataggcca ctagtggatc 60  
tc 62

4210 161  
4211 59  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDR181c-S1

4400 161  
accataaacc caaatgctgg acatctaagg aaatctaagt cagctgaagc ttcgtaagc 59

4210 162  
4211 62  
4212 DNA  
4213 Artificial Sequence

4220  
4223 Description of Artificial Sequence: primer  
YDR181c-S2

4400 162  
tagtggggtt tgaatcggtta tcacgggaga acattgcttt gcataggcca ctagtggatc 60  
tc 62

4210 163  
4211 59  
4212 DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDF531w-S1

<400> 163

atgacggagaa ttactcaaga gatattttac aattggcgatt cagctgaagc ttcgtagcg 59

<100> 164

<110> 62

<120> DNA

<130> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDF531w-S2

<400> 164

aaataagcta ttgaccaat attgttggag atggcgaata gcataggcca ctagtggatc 60  
tg 62

<100> 165

<110> 52

<120> DNA

<130> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YLF186w-S1

<400> 165

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<100> 166

<110> 62

<120> DNA

<130> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YLF186w-S2

<400> 166

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tg 62

<100> 167

<110> 59

<120> DNA

<130> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDF472w-S1

<400> 167

atgtctcaaa gaataattca accaagcgca tctgaccaac cagctgaagc ttogtacgc 59

4210: 168

4211: 59

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR215c-S1

440: 168

taattattg atgtctcaac aagaatatac aacttttata cagctgaagc ttogtacgc 59

4211: 169

4212: 60

4213: DNA

4214: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR215c-S2

440: 169

actctcggga ttggttcagg atttaaacta gcttctacga gcataggcca ctagtggatc 60

tg

62

4210: 170

4211: 59

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YMR049c-S1

440: 170

cgactattg attactttat gaccggttag ttcttttagt cagctgaagc ttogtacgc 59

4210: 171

4211: 61

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR243w-S2

440: 171

gataataagg ttctataact gtcaggatta ttagattcca gcataggcca ctagtggatc 60

tg

62

4210: 172

4211: 60

4212: DNA

4213: Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YLR272c-S2

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tg 61

<210> 177

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YML023c-S2

<400> 178

ttgaattact tattttataa ttacactttt atcatgaacg gcataggcca ctagtggatc 60  
tg 61

<210> 178

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YLR222c-S2

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catatgtaac ttgttcaac taagttatca acccttgtga gcataggcca ctagtggatc 60  
tg 61

<210> 179

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR499c-S2

<400> 185

gtactttac ttgcattatt ctccccgttc ttttattcaa gcataggcca ctagtggatg 60  
tg 61

<210> 185

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YLR317w-S2

<400> 176

gaagtaaact aactagtaaa gtaggctaatt tcgaaacgat gcataggcca ctagtggatc 60  
tg 62

<210> 177  
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<220>  
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YPR472w-S1

<400> 177  
agccaaatct caaaccttcc ctgtcaagca cttgcctgtc gcataggcca ctagtggatg 60  
tg 62

<210> 178  
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YPR489w-S1

<400> 178  
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tg 62

<210> 179  
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YPR527w-S1

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<210> 180  
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YPR137w-S1

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tg 62

<210> 181  
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

<210>

<211> modified\_base

<212> (27)..(32)

<213> a, t, c or g

<400> 181

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<210> 182

<211> 13

<212> DNA

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<223> Description of Artificial Sequence: primer

<210>

<211> modified\_base

<212> (1)..(5)

<213> a, t, c or g

<400> 182

nnnnnggcac gag

13

<210> 183

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer PK3

<400> 183

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24

<210> 184

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer PK4

<400> 184

gacccggcca tggaggcctt ggggcgcgtg ca

32

<210> 185

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<222> Description of Artificial Sequence: primer PK9

<400> 185  
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<210> 186  
<211> 47  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer PK10

<400> 186  
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<210> 187  
<211> 25  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YML114-c-Asp718

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gttggtaccg gtcggtctct ttacc 25

<210> 188  
<211> 27  
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<220>  
<223> Description of Artificial Sequence: primer  
YLM114c-EcoRI

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<210> 189  
<211> 25  
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<220>  
<223> Description of Artificial Sequence: primer  
YML114c-BamHI

<400> 189  
atcagatccg ccaacaatga cagcg 25

<210> 190  
<211> 25  
<212> DNA  
<213> Artificial Sequence

02200

02230 Description of Artificial Sequence: primer  
YML114c-SacI

04000 190

gttgagctct gagcgtttgt ccttg

25

02100 191

02110 4

02120 PRT

02130 Artificial Sequence

02200

02230 Description of Artificial Sequence: Synthetic  
peptide

04000 191

Asp Glu Ala Asp

1

B/  
cont